



Replacement names for *Eutrigaster* (Graffia) Csuzdi & Zicsi, 1991 and *Dichogaster* (Malawia) Csuzdi, 2010 (Oligochaeta, Acanthodrilidae)

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The earthworm genus *Eutrigaster* Cognetti, 1904 has long been in synonymy with *Dichogaster* Beddard, 1888 until Sims (1987) resurrected it for the Central American *Dichogaster*-like species possessing a muscular proventriculus in segment 5. Today the genus consists of some 50 species distributed in two subgenera (Csuzdi 2012). The subgenus *Eutrigaster* (Graffia) Csuzdi & Zicsi, 1991 was erected for species that differ from the type species of the genus in possessing penial setae. According to the summary by Fragoso & Brown (2007) the subgenus *Graffia* contained 27 taxa. Later, further three species were described (Sherlock *et al.* 2011; Sherlock & Csuzdi 2013). However, the subgenus name *Graffia* is a junior homonym of the turbellarian genus *Graffia* Levinsen, 1879. (A further junior homonym *Graffia* Ihering, 1880 (Platyhelminthes: Turbellaria) has already been renamed as *Graffilla* Ihering, 1880). Here the replacement name *Eutrigaster* (Graffiona) **nom. nov.** is proposed for the earthworm subgenus *Eutrigaster* (Graffia).

The earthworm genus *Dichogaster* is a large, heterogeneous taxon possessing some 350 species allocated to three subgenera. The smallest subgenus *Dichogaster* (Malawia) Csuzdi, 2010 was erected for three East African *Dichogaster* species possessing copulatory chambers in segment 17 and lacking penial setae. Not long after the publication of the new subgenus name, István Andrassy the renowned Nematoda taxonomist drew the attention to the author that *Dichogaster* (Malawia) Csuzdi, 2010 is a junior homonym of *Malawia* Dirsh, 1968 (Orthoptera) and needs to be replaced. Here, the replacement name *Dichogaster* (Andrassyona) **nom. nov.** is proposed for the junior homonym.

Taxonomy

Family Acanthodrilidae Claus, 1880

Subfamily Benhamiinae Michaelsen, 1897

Eutrigaster (Graffiona) **nom. nov.**

pro *Eutrigaster* (Graffia) Csuzdi & Zicsi, 1991: 182, non *Graffia* Levinsen, 1879: 196 (Platyhelminthes: Turbellaria); non *Graffia* Ihering, 1880: 147, 152 (Platyhelminthes: Turbellaria) = *Graffilla* Ihering, 1880: 162.

Etymology. The subgenus is named in honour of the late Otto Graff (1917–2014), the world-renowned earthworm ecologist.

Type species. *Dichogaster picadoi* Michaelsen, 1912 through original designation as *Eutrigaster* (Graffia) *picadoi* (Michaelsen, 1912) by Csuzdi & Zicsi (1991).

Included species. *Eutrigaster* (Graffiona) *picadoi* (Michaelsen, 1912), *Eutrigaster* (Graffiona) *arborea* (James, 1996), *Eutrigaster* (Graffiona) *athena* (James, 1996), *Eutrigaster* (Graffiona) *azul* Sherlock & Csuzdi, 2011, *Eutrigaster* (Graffiona) *basseterrensis* (James, 1996), *Eutrigaster* (Graffiona) *caesitifusca* (James, 1996), *Eutrigaster* (Graffiona) *callaina* (James, 1996), *Eutrigaster* (Graffiona) *gagzoi* (Michaelsen, 1908), *Eutrigaster* (Graffiona) *georgei* Sherlock & Csuzdi, 2013, *Eutrigaster* (Graffiona) *giriya* (James, 1996), *Eutrigaster* (Graffiona) *godeffroyi* (Michaelsen, 1890), *Eutrigaster* (Graffiona) *guadeloupensis* (James, 1996), *Eutrigaster* (Graffiona) *hartmeyer* (Michaelsen, 1908), *Eutrigaster* (Graffiona) *haruvi* (James, 2004), *Eutrigaster* (Graffiona) *johnsoni* (James, 2004), *Eutrigaster* (Graffiona) *keiteli* (Michaelsen, 1898), *Eutrigaster* (Graffiona) *manleyi* (James, 2004), *Eutrigaster* (Graffiona) *manni* (Michaelsen, 1935), *Eutrigaster* (Graffiona) *matoubensis* (James, 1996), *Eutrigaster* (Graffiona) *michaelseniana* Csuzdi & Zicsi,

1991, *Eutrigaster (Graffiona) montana* Csuzdi & Zicsi, 1991, *Eutrigaster (Graffiona) muscipila* (James, 1996), *Eutrigaster (Graffiona) nicaraoi* Csuzdi & Sherlock, 2011, *Eutrigaster (Graffiona) reichardti* (Michaelsen, 1908), *Eutrigaster (Graffiona) rodriguezi* Csuzdi, 1994, *Eutrigaster (Graffiona) sporadonephra disa* (Righi, 1972), *Eutrigaster (Graffiona) sporadonephra sporadonephra* (Cognetti, 1905), *Eutrigaster (Graffiona) sydneyi* (James, 2004), *Eutrigaster (Graffiona) uhleri* (Michaelsen, 1935), *Eutrigaster (Graffiona) verens* (Cognetti, 1905).

***Dichogaster (Andrassyona)* nom. nov.**

pro *Dichogaster (Malawia)* Csuzdi, 2010: 220, non *Malawia* Dirsh, 1968: 143 (Insecta: Orthoptera).

Etymology. The subgenus is named in honour of the late István Andrassy (1927–2012), the world-renowned Nematoda taxonomist.

Type species. *Dichogaster frickei* Michaelsen, 1912 through original designation as *Dichogaster (Malawia) frickei* Michaelsen, 1912 by Csuzdi (2010).

Included species. *Dichogaster (Andrassyona) frickei* Michaelsen, 1912, *Dichogaster (Andrassyona) taborana* Michaelsen, 1913, *Dichogaster (Andrassyona) ufipana* Michaelsen, 1913.

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